

## CLAIMS

I claim:

- 835           1)     An aiming device for a projectile launcher, comprising:
- a)     first and second light bending elements which are concentrically  
aligned;
- b)     a rotation mechanism which allows counter rotation of said first and  
second light bending elements relative to one another in a synchronous manner such that  
840 a line of sight through the aiming device moves along a substantially straight vertical  
line as said rotation mechanism is rotated;
- c)     a calibration element associated with said rotation mechanism which  
indicates the amount of rotation of said rotation mechanism that causes said line of sight  
to pass through the point where a projectile launched by the projectile launcher will be  
845 when it reaches a particular distance from the projectile launcher.
- 2)     The aiming device of claim 1 wherein said light bending elements are  
wedge-shaped prisms.
- 3)     The aiming device of claim 1 wherein said rotation mechanism allows both  
of said light bending elements to be rotated 180 degrees.
- 850           4)     The aiming device of claim 1 wherein said light bending elements are  
located in an elongate tubular shell.

- 5) The aiming device of claim **1** wherein light bending elements are mounted in two rotatable rings and the light bending element in one ring is equal to the light-bending element in the other ring.
- 855 6) The aiming device of claim **5** wherein said rotation mechanism comprises of one or more cable-like linkages between said rotatable rings.
- 7) The aiming device of claim **6** wherein said one or more cable-like linkages include two or more rollers to change the direction of the tension of said cable-like linkages.
- 860 8) The aiming device of claim **5** wherein the said rotation mechanism comprises said rotatable rings having gear-like ridges that facilitate the synchronization of concentric opposite rotation of said rotatable rings.
- 9) The aiming device of claim **8** wherein said rotation mechanism comprises gear-like linkage between said rotatable rings.
- 865 10) The aiming device of claim **9** wherein said gear-like linkage includes one gear-like link.
- 11) The aiming device of claim **9** wherein said gear-like linkage includes more than one gear-like link.
- 870 12) The aiming device of claim **11** wherein the gear-like linkage is staggered in relationship to the rotatable rings such that at least one or more of the gear-like linkages is not in the same phase of engagement with said gear-like ridges.

13) The aiming device of claim **5** wherein said rotation elements include friction engagement elements which facilitate the synchronization of the concentric opposite rotation of said rings.

875 14) The aiming device of claim **13** wherein said friction engagement elements include rollers.

15) The image-moving device of claim **14** wherein there is one of said rollers.

16) The image-moving device of claim **14** wherein there are more than one of said rollers.

880 17) The device of claim **5** wherein said rotation elements include a ridged linkage which synchronizes the concentric opposite rotation of said rings.

18) The device of claim **17** wherein said ridged linkage is linked to a common point that when moved causes a synchronized and concentric opposite rotation of said rings.

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